STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: *10/537,449*
Source: *1FW/6*
Date Processed by STIC: *8/1/06*

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT
MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<**http://www.uspto.gov/ebc/efs/downloads/documents.htm>** , **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):**
   U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 10/537,449

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1____Wrapped Nucleics Wrapped Aminos — The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2____Invalid Line Length — The rules require that a line **not exceed** 72 characters in length. This includes white spaces.

3____Misaligned Amino Numbering — The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.

4____Non-ASCII — The submitted file was not saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**

5____Variable Length — Sequence(s)____contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6____PatentIn 2.0 "bug" — A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**

7____Skipped Sequences (OLD RULES) — Sequence(s)_____ missing. If intentional, please insert the following lines for **each** skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i)   SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped
Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.

8____Skipped Sequences (NEW RULES) — Sequence(s)_____ missing. If **intentional**, please insert the following lines for **each** skipped sequence.
<210> sequence id number
<400> sequence id number
000

9____Use of n's or Xaa's (NEW RULES) — Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10____Invalid <213> Response — Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence. (see item 11 below)

11____Use of <220> — Sequence(s)_____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules

12____PatentIn 2.0 "bug" — Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13____ Misuse of n/Xaa — "n" can **only** represent a single <u>nucleotide</u>; "Xaa" can **only** represent a single <u>amino acid</u>

IFW16

RAW SEQUENCE LISTING   DATE: 08/01/2006
PATENT APPLICATION: US/10/537,449   TIME: 10:08:44

Input Set : **A:\PTO.KD.txt**
Output Set: **N:\CRF4\08012006\J537449.raw**

```
     3 <110> APPLICANT: Technische Universitat Dresden
     5 <120> TITLE OF INVENTION: Polynucleotides Targeted Against Htert and Use
Thereof
     7 <130> FILE REFERENCE: 101215-189-2
     9 <140> CURRENT APPLICATION NUMBER: 10/537,449
C--> 10 <141> CURRENT FILING DATE: 2006-01-09
    12 <160> NUMBER OF SEQ ID NOS: 18
    14 <170> SOFTWARE: PatentIn Ver. 2.1
    16 <210> SEQ ID NO: 1
    17 <211> LENGTH: 75
    18 <212> TYPE: DNA
    19 <213> ORGANISM: Homo sapiens
    21 <220> FEATURE:
    22 <221> NAME/KEY: mRNA
    23 <222> LOCATION: (1)..(75)
    24 <223> OTHER INFORMATION: subunit 2176-2250 of hTERT (Accession AF015950)
    26 <400> SEQUENCE: 1
    27 ctttgtcaag gtggatgtga cgggcgcgta cgacaccatc ccccaggaca ggctcacgga 60
    28 ggtcatcgcc agcat                                                  75
    31 <210> SEQ ID NO: 2
    32 <211> LENGTH: 98
    33 <212> TYPE: DNA
    34 <213> ORGANISM: Homo sapiens
    36 <220> FEATURE:
    37 <221> NAME/KEY: mRNA
    38 <222> LOCATION: (1)..(98)
    39 <223> OTHER INFORMATION: subunit 2296-2393 of hTERT (Accession AF015950)
    41 <400> SEQUENCE: 2
    42 ccagaaggcc gcccatgggc acgtccgcaa ggccttcaag agccacgtct ctaccttgac 60
    43 agacctccag ccgtacatgc gacagttcgt ggctcacc                         98
    46 <210> SEQ ID NO: 3
    47 <211> LENGTH: 23
    48 <212> TYPE: DNA
    49 <213> ORGANISM: Homo sapiens
    51 <220> FEATURE:
    52 <221> NAME/KEY: mRNA
    53 <222> LOCATION: (1)..(23)
    54 <223> OTHER INFORMATION: subunit 2183-2205 of hTERT (Accession AF015950)
    56 <400> SEQUENCE: 3
    57 aaggtggatg tgacgggcgc gta                                         23
    60 <210> SEQ ID NO: 4
    61 <211> LENGTH: 20
    62 <212> TYPE: DNA
    63 <213> ORGANISM: Homo sapiens
```

see pp 1-3, 5

**Does Not Comply
Corrected Diskette Needed**

see 1.823 of Sequence Rules

*FYI: Per 1.823 of Sequence Rules, database accession numbers need to be listed, along with accession date, as shown below
<300> ← no response. It is a "header"
<308> AF015950
<309> ← list accession date on this line*

8/1/2006

RAW SEQUENCE LISTING   DATE: 08/01/2006
PATENT APPLICATION: **US/10/537,449**   TIME: 10:08:44

Input Set : **A:\PTO.KD.txt**
Output Set: **N:\CRF4\08012006\J537449.raw**

```
65 <220> FEATURE:
66 <221> NAME/KEY: mRNA
67 <222> LOCATION: (1)..(20)
68 <223> OTHER INFORMATION: subunit 2206-2225 of hTERT (Accession AF015950)
70 <400> SEQUENCE: 4
71 cgacaccatc ccccaggaca                                        20
74 <210> SEQ ID NO: 5
75 <211> LENGTH: 20
76 <212> TYPE: DNA
77 <213> ORGANISM: Homo sapiens
79 <220> FEATURE:
80 <221> NAME/KEY: mRNA
81 <222> LOCATION: (1)..(20)
82 <223> OTHER INFORMATION: subunit 2315-2334 of hTERT (Accession AF015950)
84 <400> SEQUENCE: 5
85 cacgtccgca aggccttcaa                                        20
88 <210> SEQ ID NO: 6
89 <211> LENGTH: 20
90 <212> TYPE: DNA
91 <213> ORGANISM: Homo sapiens
93 <220> FEATURE:
94 <221> NAME/KEY: mRNA
95 <222> LOCATION: (1)..(20)
96 <223> OTHER INFORMATION: subunit 2317-2336 of hTERT (Accession AF015950)
98 <400> SEQUENCE: 6
99 cgtccgcaag gccttcaaga                                        20
102 <210> SEQ ID NO: 7
103 <211> LENGTH: 23
104 <212> TYPE: DNA
105 <213> ORGANISM: Homo sapiens
107 <220> FEATURE:
108 <221> NAME/KEY: mRNA
109 <222> LOCATION: (1)..(23)
110 <223> OTHER INFORMATION: subunit 2324-2346 of hTERT (Accession AF015950)
112 <400> SEQUENCE: 7
113 aaggccttca agagccacgt ctc                                    23
116 <210> SEQ ID NO: 8
117 <211> LENGTH: 20
118 <212> TYPE: DNA
119 <213> ORGANISM: Homo sapiens
121 <220> FEATURE:
122 <221> NAME/KEY: mRNA
123 <222> LOCATION: (1)..(20)
124 <223> OTHER INFORMATION: subunit 2331-2350 hTERT (Accession AF015950)
126 <400> SEQUENCE: 8
127 tcaagagcca cgtctctacc                                        20
130 <210> SEQ ID NO: 9
131 <211> LENGTH: 20
132 <212> TYPE: DNA
```

RAW SEQUENCE LISTING   DATE: 08/01/2006
PATENT APPLICATION: **US/10/537,449** TIME: 10:08:44

Input Set : **A:\PTO.KD.txt**
Output Set: **N:\CRF4\08012006\J537449.raw**

```
133 <213> ORGANISM: Homo sapiens
135 <220> FEATURE:
136 <221> NAME/KEY: mRNA
137 <222> LOCATION: (1)..(20)
138 <223> OTHER INFORMATION: subunit 2333-2352 of hTERT (Accession AF015950)
140 <400> SEQUENCE: 9
141 aagagccacg tctctacctt                                          20
144 <210> SEQ ID NO: 10
145 <211> LENGTH: 20
146 <212> TYPE: DNA
147 <213> ORGANISM: Artificial Sequence
149 <220> FEATURE:
150 <223> OTHER INFORMATION: Description of Artificial Sequence: hTERT-AS
AStel
      151      2206-2225
153 <400> SEQUENCE: 10
154 tgtcctgggg gatggtgtcg                                         20
157 <210> SEQ ID NO: 11
158 <211> LENGTH: 20
159 <212> TYPE: DNA
160 <213> ORGANISM: Artificial Sequence
162 <220> FEATURE:
163 <223> OTHER INFORMATION: Description of Artificial Sequence: hTERT-AS
AStel
      164      2315-2334
166 <400> SEQUENCE: 11
167 ttgaaggcct tgcggacgtg                                         20
170 <210> SEQ ID NO: 12
171 <211> LENGTH: 20
172 <212> TYPE: DNA
173 <213> ORGANISM: Artificial Sequence
175 <220> FEATURE:
176 <223> OTHER INFORMATION: Description of Artificial Sequence: hTERT-AS
AStel
      177      2317-2336
179 <400> SEQUENCE: 12
180 tcttgaaggc cttgcggacg                                         20
183 <210> SEQ ID NO: 13
184 <211> LENGTH: 20
185 <212> TYPE: DNA
186 <213> ORGANISM: Artificial Sequence
188 <220> FEATURE:
189 <223> OTHER INFORMATION: Description of Artificial Sequence: hTERT-AS
AStel
      190      2331-2350
192 <400> SEQUENCE: 13
193 ggtagagacg tggctcttga                                         20
196 <210> SEQ ID NO: 14
197 <211> LENGTH: 20
198 <212> TYPE: DNA
199 <213> ORGANISM: Artificial Sequence
201 <220> FEATURE:
202 <223> OTHER INFORMATION: Description of Artificial Sequence: hTERT-AS
```

AStel

RAW SEQUENCE LISTING   DATE: 08/01/2006
PATENT APPLICATION: US/10/537,449   TIME: 10:08:44

            Input Set : A:\PTO.KD.txt
            Output Set: N:\CRF4\08012006\J537449.raw

```
203         2333-2352
205 <400> SEQUENCE: 14
206 aaggtagaga cgtggctctt                                          20
209 <210> SEQ ID NO: 15
210 <211> LENGTH: 20
211 <212> TYPE: DNA
212 <213> ORGANISM: Artificial Sequence
214 <220> FEATURE:
215 <223> OTHER INFORMATION: Description of Artificial Sequence: NS-K2
217 <400> SEQUENCE: 15
218 cagtctcagt actgaagctg                                          20
221 <210> SEQ ID NO: 16
222 <211> LENGTH: 20
223 <212> TYPE: DNA
224 <213> ORGANISM: Artificial Sequence
226 <220> FEATURE:
227 <223> OTHER INFORMATION: Description of Artificial Sequence: NS-K3
229 <400> SEQUENCE: 16
230 cagcttcagt actgagactg                                          20
233 <210> SEQ ID NO: 17
234 <211> LENGTH: 501
235 <212> TYPE: DNA
236 <213> ORGANISM: Homo sapiens
238 <220> FEATURE:
239 <221> NAME/KEY: mRNA
240 <222> LOCATION: (1)..(501)
241 <223> OTHER INFORMATION: subunit 2000-2500 of hTERT (Accession AF015950)
243 <400> SEQUENCE: 17
244 aagagggccg agcgtctcac ctcgagggtg aaggcactgt tcagcgtgct caactacgag 60
245 cgggcgcggc gccccggcct cctgggcgcc tctgtgctgg gcctggacga tatccacagg 120
246 gcctggcgca ccttcgtgct gcgtgtgcgg gcccaggacc cgccgcctga gctgtacttt 180
247 gtcaaggtgg atgtgacggg cgcgtacgac accatccccc aggacaggct cacggaggtc 240
248 atcgccagca tcatcaaacc ccagaacacg tactgcgtgc gtcggtatgc cgtggtccag 300
249 aaggccgccc atgggcacgt ccgcaaggcc ttcaagagcc acgtctctac cttgacagac 360
250 ctccagccgt acatgcgaca gttcgtggct cacctgcagg agaccagccc gctgagggat 420
251 gccgtcgtca tcgagcagag ctcctccctg aatgaggcca gcagtggcct cttcgacgtc 480
252 ttcctacgct tcatgtgcca c                                         501
255 <210> SEQ ID NO: 18
256 <211> LENGTH: 4015
257 <212> TYPE: DNA
258 <213> ORGANISM: Homo sapiens
260 <220> FEATURE:
261 <221> NAME/KEY: mRNA
262 <222> LOCATION: (1)..(4015)
263 <223> OTHER INFORMATION: hTERT (EMBL:Accession AF015950)
265 <400> SEQUENCE: 18
266 gcagcgctgc gtcctgctgc gcacgtggga agccctggcc ccggccaccc ccgcgatgcc 60
267 gcgcgctccc cgctgccgag ccgtgcgctc cctgctgcgc agccactacc gcgaggtgct 120
268 gccgctggcc acgttcgtgc ggcgcctggg ccccagggc tggcggctgg tgcagcgcgg 180
```

insufficient explanation
give source of genetic material (see item II on Eur summary sheet)

```
269 ggacccggcg gctttccgcg cgctggtggc ccagtgcctg gtgtgcgtgc cctgggacgc 240
270 acggccgccc cccgccgccc cctccttccg ccaggtgtcc tgcctgaagg agctggtggc 300
271 ccgagtgctg cagaggctgt gcgagcgcgg cgcgaagaac gtgctggcct tcggcttcgc 360
272 gctgctggac ggggcccgcg ggggcccccc cgaggccttc accaccagcg tgcgcagcta 420
273 cctgcccaac acggtgaccg acgcactgcg ggggagcggg gcgtggggc tgctgctgcg 480
274 ccgcgtgggc gacgacgtgc tggttcacct gctggcacgc tgcgcgctct ttgtgctggt 540
275 ggctcccagc tgcgcctacc aggtgtgcgg gccgccgctg taccagctcg gcgctgccac 600
276 tcaggcccgg cccccgccac acgctagtgg accccgaagg cgtctgggat gcgaacgggc 660
277 ctggaaccat agcgtcaggg aggccggggt cccctgggc ctgccagccc cgggtgcgag 720
278 gaggcgcggg ggcagtgcca gccgaagtct gccgttgccc aagaggccca ggcgtggcgc 780
279 tgcccctgag ccggagcgga cgcccgttgg gcaggggtcc tgggcccacc cgggcaggac 840
280 gcgtggaccg agtgaccgtg gtttctgtgt ggtgtcacct gccagacccg ccgaagaagc 900
281 cacctctttg gagggtgcgc tctctggcac gcgccactcc cacccatccg tgggccgcca 960
282 gcaccacgcg ggcccccat ccacatcgcg gccaccacgt ccctgggaca cgccttgtcc 1020
283 cccggtgtac gccgagacca agcacttcct ctactcctca ggcgacaagg agcagctgcg 1080
284 gccctccttc ctactcagct ctctgaggcc cagcctgact ggcgctcgga ggctcgtgga 1140
285 gaccatcttt ctgggttcca ggccctggat gccagggact ccccgcaggt tgccccgcct 1200
286 gccccagcgc tactggcaaa tgcggcccct gtttctggag ctgcttggga accacgcgca 1260
287 gtgcccctac ggggtgctcc tcaagacgca ctgccgctg cgagctgcgg tcaccccagc 1320
288 agccggtgtc tgtgcccggg agaagcccca gggctctgtg gcggcccccg aggaggagga 1380
289 cacagacccc cgtcgcctgg tgcagctgct ccgccagcac agcagccct ggcaggtgta 1440
290 cggcttcgtg cgggcctgcc tgcgccggct ggtgccccca ggcctctggg gctccaggca 1500
291 caacgaacgc cgcttcctca ggaacaccaa gaagttcatc tccctgggga agcatgccaa 1560
292 gctctcgctg caggagctga cgtggaagat gagcgtgcgg gactgcgctt ggctgcgcag 1620
293 gagcccaggg gttggctgtg ttccggccgc agagcaccgt ctgcgtgagg agatcctggc 1680
294 caagttcctg cactggctga tgagtgtgta cgtcgtcgag ctgctcaggt ctttctttta 1740
295 tgtcacggag accacgtttc aaaagaacag gctcttttc taccggaaga gtgtctggag 1800
296 caagttgcaa agcattggaa tcagacagca cttgaagagg gtgcagctgc gggagctgtc 1860
297 ggaagcagag gtcaggcagc atcgggaagc caggcccgcc ctgctgacgt ccagactccg 1920
298 cttcatcccc aagcctgacg ggctgcggcc gattgtgaac atggactacg tcgtgggagc 1980
299 cagaacgttc cgcagagaaa agagggccga gcgtctcacc tcgagggtga aggcactgtt 2040
300 cagcgtgctc aactacgagc gggcgcggcg ccccggcctc ctgggcgcct ctgtgctggg 2100
301 cctggacgat atccacaggg cctggcgcac cttcgtgctg cgtgtgcggg cccaggaccc 2160
302 gccgcctgag ctgtactttg tcaaggtgga tgtgacgggc gcgtacgaca ccatccccca 2220
303 ggacaggctc acggaggtca tcgccagcat catcaaaccc cagaacacgt actgcgtgcg 2280
304 tcggtatgcc gtggtccaga aggccgccca tgggcacgtc cgcaaggcct tcaagagcca 2340
305 cgtctctacc ttgacagacc tccagccgta catgcgacag ttcgtggctc acctgcagga 2400
306 gaccagcccg ctgagggatg ccgtcgtcat cgagcagagc tcctccctga atgaggccag 2460
307 cagtggcctc ttcgacgtct tcctacgctt catgtgccac cacgccgtgc gcatcagggg 2520
308 caagtcctac gtccagtgcc aggggatccc gcaggctcc atcctctcca cgctgctctg 2580
309 cagcctgtgc tacggcgaca tggagaacaa gctgtttgcg gggattcggc gggacgggct 2640
310 gctcctgcgt ttggtggatg atttcttgtt ggtgacacct cacctcaccc acgcgaaaac 2700
311 cttcctcagg accctggtcc gaggtgtccc tgagtatggc tgcgtggtga acttgcggaa 2760
312 gacagtggtg aacttccctg tagaagacga ggccctgggt ggcacggctt ttgttcagat 2820
313 gccggcccac ggcctattcc cctggtgcgg cctgctgctg gatacccgga ccctggaggt 2880
314 gcagagcgac tactccagct atgcccggac ctccatcaga gccagtctca ccttcaaccg 2940
315 cggcttcaag gctgggagga acatgcgtcg caaactcttt ggggtcttgc ggctgaagtg 3000
316 tcacagcctg tttctggatt tgcaggtgaa cagcctccag acggtgtgca ccaacatcta 3060
317 caagatcctc ctgctgcagg cgtacaggtt tcacgcatgt gtgctgcagc tcccatttca 3120
```

VERIFICATION SUMMARY   DATE: 08/01/2006
PATENT APPLICATION: **US/10/537,449**   TIME: 10:08:45

Input Set : **A:\PTO.KD.txt**
Output Set: **N:\CRF4\08012006\J537449.raw**

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date